

INTERNATIONAL SEARCH REPORT

PCT/US 03/11959

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01F1/84

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 248 084 A (FLOWTEC AG) 9 October 2002 (2002-10-09) column 1, line 48 -column 2, line 24 column 2, line 42-55 column 3, line 25 -column 5, line 30 column 5, line 47 -column 6, line 7 figures 1-2A,3	1-18
X	US 4 756 198 A (LEVIEN ANDREW K) 12 July 1988 (1988-07-12) column 6, line 4-46; figures 7-10	1-6,8, 10-15,17
X	EP 1 253 409 A (FLOWTEC AG) 30 October 2002 (2002-10-30) column 6, line 1 -column 9, line 31; figures 1-4	1-6,8, 10-15,17



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

& document member of the same patent family

Date of the actual completion of the international search

25 November 2003

Date of mailing of the international search report

03/12/2003

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Information on patent family members

PCT/US 03/11959

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1248084	A	09-10-2002	EP 1248084 A1	09-10-2002
US 4756198	A	12-07-1988	NONE	
EP 1253409	A	30-10-2002	EP 1253409 A1	30-10-2002
			WO 02088641 A1	07-11-2002
			US 2002157480 A1	31-10-2002